UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/083,236	02/26/2002	Craig L. Ogg	47187/RRT/S850	5848

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EXAMINER
HOMAYOUNMEHR, FARID

ART UNIT	PAPER NUMBER
2132	

DATE MAILED: 09/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

Office Action Summary	Application No.		Applicant(s)	
	10/083,236		OGG ET AL.	
	Examiner		Art Unit	
	Farid Homayounmehr		2132	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE _____ MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on _26 February 2002_.

2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under _Ex parte Quayle_, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) _1-37_ is/are pending in the application.

     4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) _1-37_ is/are rejected.

7)☒ Claim(s) _4_ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on _26 February 2002_ is/are: a)☒ accepted or b)☐ objected to by the Examiner.

     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

     a)☐ All   b)☐ Some * c)☐ None of:

         1.☐ Certified copies of the priority documents have been received.

         2.☐ Certified copies of the priority documents have been received in Application No. _____.

         3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

     * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
    Paper No(s)/Mail Date _9/28/04_ `4/8/2002 j 11/5/03; 8/11/03`

4) ☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____ .

5) ☐ Notice of Informal Patent Application (PTO-152)

6) ☐ Other: _____.

PTOL-326 (Rev. 7-05)   Office Action Summary   Part of Paper No./Mail Date 09012005

DETAILED ACTION

Claims 1-37 have been examined.

Information Disclosure Statement PTO-1449

The Information Disclosure Statements submitted by applicant on 09/28/2004,

11/05/2003, 08/11/2003 and 04/08/2002 has been considered. Please see

attached PTO-1449.

Claim Objections

1.   Claim 4 is objected to because of the following informalities: There is no

definition or reference in claims 1 or 2 to a "cryptographic device". Therefore,

"cryptographic device" is an item introduced in claim 4. Using "a cryptographic

device" Instead of "the cryptographic device" gives the broadest interpretations to

the claim, and is recommended. Appropriate correction is required.

Claim Rejections - 35 USC § 102

2.   The following is a quotation of the appropriate paragraphs of 35

U.S.C. 102 that form the basis for the rejections under this section made in this

Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

3.   Claims 1 to 37 are rejected under 35 U.S.C. 102(e) as being anticipated

by Whitehouse (US Patent No. 6,005,945). The reference is included and

identified as prior art in application Information Disclosure Statement.

3.1.   As per claims 1 and 22, Whitehouse is directed to a system and method

for providing public key infrastructure security (column 9 lines 32 to 35) in a wide

area computer network (Fig. 4, column 7 lines 54 to 68) comprising: a user

terminal (Fig. 4, *user interface*) coupled to the computer network (Fig. 4, as

described in column 7 lines 54 to 68) including a client system (Fig. 4 item 104

and PCs); a private key, and a public key assigned to a user when the user

registers with the system using the user terminal (Fig. 4, column 7 lines 54 to 68);

a database remote from the user terminal for securely storing the private key and

the public key (column 8 lines 23 to 62); a server system remote from the user

terminal (Fig. 4, item 102 *secure central computer,* as described in column 8

line23) and coupled to the computer network (column 8 lines 63 to 65) including

a computer executable code for performing a cryptographic function as a user

transaction data on behalf of the user (column 12 line 57 to column 13 line 55).

3.2.   As per claim 2, Whitehouse is directed to the system of claim 1, further

comprising a plurality of security device transaction data stored in the database, wherein each security device transaction data is related to a respective user (column 10 line 45 to column 11 line 30).

3.3.   As per claim 3, Whitehouse is directed the system of claim 1, wherein the private key is encrypted when it is stored in the database (column 18 lines 50 to 56).

3.4.   As per claim 4, Whitehouse is directed the system of claim 2, wherein a respective security device transaction data related to a user (Fig. 5A item 200, 202, 204 and 206) is loaded into a cryptographic device (the process that decrypts the message requests and digital signatures, as described in column 12 line 15 to column 13 line 15) when the user requests a service (Fig. 5A, item 200).

3.5.   As per claim 5, Whitehouse is directed the system of claim 1, wherein the server system includes a cryptographic device to authenticate the identity of the user (column 12 lines 15 to 55) and verify that the identified user is authorized to assume a role and perform a corresponding operation. Whitehouse clearly specifies separate and distinguished operations (e.g. request for postal indicium, authentication key generation and distribution, user account maintenance and account balancing, indicium generation or validation, etc.) to be performed by separate entities. For example, a user can only perform a limited set of

operations, such as requesting for postal indicium, and plays no role in system

administration or management tasks such as key verification (performed by an

auditor, as described in column 18 line 14 to 40), crediting or debiting accounts

(performed by the secured central computer, column 12 line 65 to column 13 line

15), authentication key generation or distribution (performed by Postal authorities

or agents, as described in column 19 line 14 to 30) or Postal Indicium validation

(column 20 line 55 to column 21 line 19). Therefore, the examiner asserts that it

discloses the feature.

3.6.   As per claim 6, Whitehouse is directed the system of claim 5, wherein the

assumed role is a security officer role to initiate a key management function (the

key management function is performed by *the postal authority computer* as

described in column 20 line 16 to 40).

3.7.   As per claim 7, Whitehouse is directed the system of claim 5, wherein the

assumed role is an administrator role to manage a user access control database

(the management of user database is performed within the secure central

computer, where it stores and protects user data as described in column 10 line

45 to column 11 line 12).

3.8.   As per claim 8, Whitehouse is directed the system of claim 5, wherein the

assumed role is a provider role to withdraw from a user account (the central

computer performs the role of user account withdrawal as described in column

12 line 65 to column 13 line 15).

3.9.   As per claim 9, Whitehouse is directed the system of claim 5, wherein the

assumed role is a user role to operate on a value bearing item (the user role is

performed by the user computer, requesting indicium, as described in Fig. 5A

item 200).

3.10.   As per claim 10, Whitehouse is directed the system of claim 5, wherein the

assumed role is a certificate authority role to allow a public key certificate to be

loaded and verified (column 18, line 14 to 40).

3.11.   As per claim 11, Whitehouse is directed the system of claim 5, wherein the

cryptographic device (part of the *secured central computer*) includes a computer

executable code for supporting multiple concurrent users and maintaining a

separation of roles and operations performed by each user (column 20 line 55 to

column 23 line 18).

3.12.   As per claim 12, Whitehouse is directed the system of claim 5, wherein the

cryptographic device stores information about a number of last transactions in a

respective internal register (disclosed by the transaction log, column 9 lines 12 to

31).

3.13.   As per claim 13, Whitehouse is directed the system of claim 12, wherein

the database stores a table including the respective information about a last

transaction (column 9 line 12 to 31), a verification module to compare the

information saved in the device with the information saved in the database

(column 20 line 52 to column 23 line 19).

3.14.   As per claim 14, Whitehouse is directed the system of claim 1,further

comprising a digital certificate stored in the database and assigned to a user

when the user registers with the system (column 16 line 18 to column 17 line 35).

3.15.   As per claim 15, Whitehouse is directed the system of claim 1, wherein the

cryptographic function is digitally signing a certificate (column 10 line 45 to

column 11 line 30).

3.16.   As per claim 16, Whitehouse is directed the system of claim 1, wherein the

cryptographic function is encrypting data (claim 1).

3.17.   As per claim 17, Whitehouse is directed the system of claim 1, wherein the

cryptographic function is decrypting data (claim 1).

3.18.   As per claim 18, Whitehouse is directed the system of claim 1, wherein the

database includes a user profile for the user (column 10 line 45 to column 11 line

10).

3.19. As per claim 19, Whitehouse is directed to the system of claim 18, wherein

the user profile includes username, password, account expiration, user role,

logon failure count, logon failure limit, logon time-out limit, password expiration,

and password period (column 10 line 45 to column 11 line 15).

3.20. As per claim 20, Whitehouse is directed to system of claim 5, wherein the

cryptographic device is capable of performing one or more of Rivest, Shamir and

Adleman (RSA) public key encryption (clearly disclosed in column 16 line 39 to

45), DES (clearly disclosed in column 23 line 49 to 59), Triple-DES, DSA

signature, SHA-1, and Pseudo-random number generation algorithms (which are

comparable encryption algorithms to RSA (column 16 line 41) and obvious

choices to a person skilled in the art to use as alternative methods of encryption).

3.21. As per claim 21, Whitehouse is directed to system of claim 5, wherein the

cryptographic device stores information about a number of last transactions in an

internal register (current piece count, column 10 line 64) and compares the

information saved in the register with the information saved in a memory before

loading a new transaction data (column 20 line 52 to column 22 line 51).

3.22. As per claim 23, Whitehouse is directed to the method of claim 22, further

comprising the step of storing a digital certificate and assigning the stored digital

certificate to a user when the user registers with the system (column 16 line 18 to

column 17 line 35).

3.23. As per claim 24, Whitehouse is directed to the method of claim 22, further

comprising the step of storing a plurality of security device transaction data in the

database, wherein each transaction data is related to one of a plurality of users

(column 10 line 45 to column 11 line 30).

3.24. As per claim 25, Whitehouse is directed the method of claim 24, further

comprising the step of loading a security device transaction data related to a user

(Fig. 5A item 200, 202, 204 and 206) into one of the one or more of cryptographic

devices (the process that decrypts the message requests and digital signatures,

as described in column 12 line 15 to column 13 line 15) when the user requests

to operate on a value bearing item (Fig. 5A, item 200).

3.25. As per claim 26, Whitehouse is directed the method of claim 25, further

comprising the step of verifying that the requesting user is authorized to assume

a role and to perform a corresponding operation. Whitehouse clearly specifies

separate and distinguished operations (e.g. request for postal indicium,

authentication key generation and distribution, user account maintenance and

account balancing, indicium generation or validation, etc.) to be performed by

separate entities. For example, a user can only perform a limited set of

operations, such as requesting for postal indicium, and plays no role in system

administration or management tasks such as key verification (performed by an

auditor, as described in column 18 line 14 to 40), crediting or debiting accounts

(performed by the secured central computer, column 12 line 65 to column 13 line 15), authentication key generation or distribution (performed by Postal authorities or agents, as described in column 19 line 14 to 30) or Postal Indicium validation (column 20 line 55 to column 21 line 19). Therefore, the examiner asserts that it discloses the feature.

3.26.   As per claim 27, Whitehouse is directed the method of claim 26, wherein the assumed role is an administrator role to manage a user access control (the management of user database is performed within the secure central computer, where it stores and protects user data as described in column 10 line 45 to column 11 line 12).

3.27.   As per claim 28, Whitehouse is directed the method of claim 26, wherein the assumed role is a user role to perform expected IBIP postal meter operations (column 25 line 45 to column 26 line 10).

3.28.   As per claim 29, Whitehouse is directed the method of claim 26, wherein the assumed role is a certificate authority role to allow a public key certificate to be loaded and verified (column 18, line 14 to 40).

3.29.   As per claim 30, Whitehouse is directed the method of claim 26, further comprising the steps of supporting multiple concurrent operators and maintaining

a separation of roles and operations performed by each operator (column 20 line 55 to column 23 line 18).

3.30. As per claim 31, Whitehouse is directed the method of claim 22, further comprising the steps of: storing information about a number of last transactions in a respective internal register of each of the one or more cryptographic devices; storing a table including the information about a last transaction in the database (column 9 line 12 to 31); comparing the information saved in the respective device with the respective information saved in the database; and loading a new transaction data if the respective information stored in the device compares with the respective information stored in the database (column 20 line 52 to column 23 line 19).

3.31. As per claim 32, Whitehouse is directed the method of claim 22, wherein the cryptographic function is digitally signing a certificate (column 10 line 45 to column 11 line 30).

3.32. As per claim 33, Whitehouse is directed the method of claim 22, wherein the cryptographic function is encrypting data (claim 1).

3.33. As per claim 34, Whitehouse is directed the method of claim 22, wherein the cryptographic function is decrypting data (claim 1).

3.34.   As per claim 35, Whitehouse is directed the method of claim 22, further

comprising the step of storing a user profile for a plurality of users (column 10

line 45 to column 11 line 10).

3.35.   As per claim 36, Whitehouse is directed the method of claim 35, wherein

the user profile includes username, user role, password, logon failure count,

logon failure limit, logon time-out limit, account expiration, password expiration,

and password period (column 10 line 45 to column 11 line 15).

3.36.   As per claim 37, Whitehouse is directed the method of claim 22, wherein

the cryptographic function is one or more of Rivest, Shamir and Adleman (RSA)

public key encryption (clearly disclosed in column 16 line 39 to 45), DES (clearly

disclosed in column 23 line 49 to 59), Triple-DES, DSA signature, SHA-1, and

Pseudo-random number generation algorithms (which are comparable encryption

algorithms to RSA (column 16 line 41) and obvious choices to a person skilled in

the art to use as alternative methods of encryption).

Conclusion

Any inquiry concerning this communication or earlier communications from

the examiner should be directed to Farid Homayounmehr whose telephone

number is 571 272 3739. The examiner can normally be reached on 9 hrs Mon-
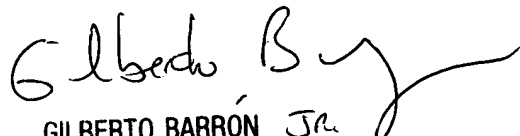
Fri, off Monday biweekly.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on (571) 272-3799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Farid Homayounmehr

Examiner

Art Unit: 2132

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